

What is claimed is:

1. An apparatus which presents a schedule to a user depending on a situation, comprising:

5 an input device inputting a schedule comprising a sequence of instructions based on a predetermined specification which can be described by a set of at least place information and time information, a schedule to be performed according to the place information and the 10 time information, and a method of presenting the user with the schedule;

15 a device performing one of obtaining a situation of a current place and a current time, and generating a situation of a virtual current place and a virtual current time;

20 a process device processing an instruction described in the input schedule depending on the current place and the current time obtained by one of obtaining the situation and generating the situation; and

25 a presentation device presenting a schedule according to a process of the instruction.

2. The apparatus according to claim 1, further comprising

25 a device suggesting and performing an action

corresponding to the schedule, wherein
said input device inputs a schedule containing a
method of suggesting and performing the action.

5 3. The apparatus according to claim 2, wherein
said schedule is described in a markup language
which identifies using a tag the place information, the
time information, the schedule to be performed, the method
of presenting the user with the schedule, the method
10 of suggesting and performing the action corresponding
the schedule, and other components of the instructions.

4. The apparatus according to claim 2, wherein
said process device executes an instruction when
15 said place information corresponds to one of the current
place of the user and the virtual current place and said
time information corresponds to one of the current time
and the virtual current time.

20 5. The apparatus according to claim 2, wherein
said input device inputs a user-specified schedule
by one of communicating with an external device for
providing a schedule through a network, reading from
a computer-readable electronic medium, and inputting
25 a schedule by the user.

6. The apparatus according to claim 2, further comprising:

5 a conversion device analyzing the input schedule and converting the schedule into structured data for schedule management, wherein

said process device executes an instruction represented in a form of the structured data for schedule management.

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7. An apparatus which presents a schedule to a user depending on a situation, comprising:

15 an input device inputting a schedule comprising a sequence of instructions based on a predetermined specification capable of describing place information and time information, and a method of presenting a schedule to be processed according to a place and a time corresponding to the place information and the time information, using a set of a name identifying a type of each piece of information and contents of the information;

20 a setting device setting as an operation mode one of a real mode and a simulation mode, by one of inputting an operation by the user and setting by a system;

25 an obtaining device obtaining a situation of a current time and a current place in the real mode;

a generation device generating a situation of a virtual current time and a virtual current place in the simulation mode;

5 a process device processing an instruction described in the input schedule depending on the current place and the current time obtained by obtaining the situation in the real mode and depending on the virtual current place and the virtual current time obtained by generating the situation in the simulation mode; and

10 a presentation device presenting a schedule according to a process of the instruction.

8. The apparatus according to claim 7, further comprising

15 a device suggesting and performing an action corresponding to the schedule, wherein said input device inputs a schedule containing a method of suggesting and performing the action.

20 9. A method of presenting a schedule to a user depending on a situation, comprising:

inputting a schedule comprising a sequence of instructions based on a predetermined specification capable of describing place information and time information, a method of presenting a schedule to be

5 processed according to a place and a time corresponding to the place information and the time information, and a method of suggesting and performing an action corresponding to the schedule, using a set of a name
5 identifying a type of each piece of information and contents of the information, by one of communicating through a network, reading from an electronic medium, and inputting by the user;

10 performing one of obtaining a situation of a current place and a current time and generating a situation of a virtual current place and a virtual current time;

15 processing an instruction described in the input schedule depending on the current time and current place obtained by one of obtaining the situation and generating the situation; and

performing one of presenting a schedule, and suggesting and performing an action corresponding to the schedule, according to a process of the instruction.

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10. A method of presenting a schedule to a user depending on a situation, comprising:

25 inputting a schedule comprising a sequence of instructions based on a predetermined specification capable of describing place information and time

information, a method of presenting a schedule to be processed according to a place and a time corresponding to the place information and the time information, and a method of suggesting and performing an action 5 corresponding to the schedule, using a set of a name identifying a type of each piece of information and contents of the information;

setting as an operation mode one of a real mode and a simulation mode, by one of inputting an operation 10 by the user and setting by a system;

obtaining a situation of a current time and a current place in the real mode, and generating a situation of a virtual current time and a virtual current place in the simulation mode;

15 processing an instruction described in the input schedule depending on the current place and the current time obtained by obtaining the situation in the real mode and depending on the virtual current place and the virtual current time obtained by generating the situation 20 in the simulation mode; and

performing one of presenting a schedule, and suggesting and performing an action corresponding to the schedule, according to a process of the instruction.

25 ~~11.~~ A storage medium storing a program for a computer

presenting a schedule to a user depending on a situation, said program enabling the computer to perform:

inputting a schedule comprising a sequence of instructions based on a predetermined specification
5 capable of describing place information and time information, a method of presenting a schedule to be processed according to a place and a time corresponding to the place information and the time information, and a method of suggesting and performing an action
10 corresponding to the schedule, using a set of a name identifying a type of each piece of information and contents of the information, by one of communicating through a network, reading from an electronic medium, and inputting by the user;

15 performing one of obtaining a situation of a current place and a current time and generating a situation of a virtual current place and a virtual current time;

processing an instruction described in the input schedule depending on the current time and current place
20 obtained by one of obtaining the situation and generating the situation; and

performing one of presenting a schedule, and suggesting and performing an action corresponding to the schedule, according to a process of the instruction.

12. A storage medium storing a program for a computer presenting a schedule to a user depending on a situation, said program enabling the computer to perform:

inputting a schedule comprising a sequence of
5 instructions based on a predetermined specification
capable of describing place information and time
information, a method of presenting a schedule to be
processed according to a place and a time corresponding
to the place information and the time information, and
10 a method of suggesting and performing an action
corresponding to the schedule, using a set of a name
identifying a type of each piece of information and
contents of the information;

setting as an operation mode one of a real mode
15 and a simulation mode, by one of inputting an operation
by the user and setting by a system;

obtaining a situation of a current time and a current
place in the real mode, and generating a situation of
a virtual current time and a virtual current place in
20 the simulation mode;

processing an instruction described in the input
schedule depending on the current place and the current
time obtained by obtaining the situation in the real
mode and depending on the virtual current place and the
25 virtual current time obtained by generating the situation

in the simulation mode; and

performing one of presenting a schedule, and suggesting and performing an action corresponding to the schedule, according to a process of the instruction.

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13. A computer-readable storage medium for a computer presenting a schedule to a user depending on a situation, storing schedule data:

wherein said schedule data comprise an electronic code string described in a markup language based on a predetermined specification, said code string including a sequence of instructions based on a predetermined specification capable of describing place information and time information, a method of presenting a schedule to be processed according to a place and a time corresponding to the place information and the time information, and a method of suggesting and performing an action corresponding to the schedule, using a set of a name identifying a type of each piece of information and contents of the information; and

wherein said schedule data are read and used by the computer for presenting a schedule to the user, and suggesting and performing an action corresponding to the schedule according to the instructions.

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14. An automatic schedule generation apparatus which automatically generates a schedule to be presented to a user depending on a situation, comprising:

5 a device obtaining a situation of a current time and a current place one of at predetermined time intervals, at predetermined places, at predetermined distances, at each matching item in a prepared user action list, for each characteristic user action, and for a user instruction;

10 a device estimating a user action performed when the situation is obtained, and determining a schedule and one of a method of presenting the schedule to the user depending on the schedule and a method of suggesting and performing an action depending on the schedule;

15 a device generating schedule data comprising a sequence of instructions based on a predetermined specification capable of describing place information and time information, a method of presenting the schedule to be processed according to a place and a time corresponding to the place information and the time information, and a method of suggesting and performing an action corresponding to the schedule, using a set of a name identifying a type of information and contents of the information, according to obtained and determined 20 information about the schedule; and

25 information about the schedule; and

a device storing generated schedule data in an electronic medium.

15. A schedule presentation apparatus which presents 5 a user with information corresponding a schedule, comprising:

an input device inputting data comprising a sequence of a predetermined specification which can be described by a set of a place condition and a time condition, and 10 a schedule to be performed based on the place condition and time condition; and

a process device processing the schedule described in the input data depending on a range of a place information and a range of a time information to be presented to 15 the user.

16. The apparatus according to claim 15, further comprising

20 a display device displaying the schedule described in the input data together with the place condition on a map corresponding to the range of the place information.

17. The apparatus according to claim 16, wherein 25 said display device displays the schedule when a range of the place condition is contained in a display

range of the map.

18. The apparatus according to claim 16, wherein
said display device displays an order of executing
5 a plurality of schedules when the plurality of schedules
having a series of place conditions are displayed on
the map, by sequentially connecting the plurality of
schedules using lines.

10 19. The apparatus according to claim 15, further
comprising

a display device displaying a map corresponding
to the range of the place information and a time axis
schedule table corresponding to the range of the time
15 information, and displaying the schedule described in
the input data on the map together with the place condition,
and on the time axis schedule table together with the
time condition when a range of the place condition is
contained in a display range of the map and a range of
20 the time condition is contained in a display range of
the time axis schedule table.

20. A schedule presentation apparatus which presents
a user with information corresponding a schedule,
25 comprising:

an input device inputting data comprising a sequence of a predetermined specification which can be described by a set of a place condition and a time condition, a schedule to be performed based on the place condition 5 and time condition, and a method of presenting a user with presentation information for the schedule; and

10 a process device processing at least one of the schedule described in the input data and the presentation information for the schedule depending on a range of a place information and a range of a time information to be presented to a user.

21. A schedule presentation apparatus which presents a user with information corresponding a schedule, 15 comprising:

an input device inputting data comprising a sequence of a predetermined specification which can be described by a set of a place condition and a time condition, a schedule to be performed based on the place condition 20 and time condition, and a method of presenting a user with presentation information for the schedule;

a device performing one of obtaining a situation of a current place and a current time, and generating a situation of a virtual current place and a virtual 25 current time; and

a process device processing at least one of the schedule described in the input data and the presentation information for the schedule depending on the current place and the current time obtained by one of obtaining
5 the situation and generating the situation.

22. The apparatus according to claim 21, further comprising

10 a display device displaying a map, and displaying on the map at least one of the schedule described in the input data and the presentation information for the schedule, together with the place condition.

23. The apparatus according to claim 22, wherein
15 said display device changes a display range of the map as the current place moves, and displays a schedule having a place condition contained in the changed display range.

20 24. A schedule presentation apparatus which presents a user with information corresponding a schedule, comprising:

25 an input device inputting data comprising a sequence of a predetermined specification which can be described by a set of a place condition and a time condition, a

schedule to be performed based on the place condition and time condition, a method of presenting a user with presentation information for the schedule, and an action to be performed for the schedule;

5 a device performing one of obtaining a situation of a current place and a current time, and generating a situation of a virtual current place and a virtual current time; and

10 a process device processing at least one of the schedule described in the input data and the presentation information for the schedule depending on the current place and the current time obtained by one of obtaining the situation and generating the situation; and

15 an execution device performing the action to be performed for the schedule described in the input data depending on the current place and the current time obtained by one of obtaining the situation and generating the situation.

20 ~~25.~~ A schedule presentation apparatus which presents a user with information corresponding a schedule, comprising:

25 input means for inputting data comprising a sequence of a predetermined specification which can be described by a set of a place condition and a time condition, and

a schedule to be performed based on the place condition and time condition; and

5 process means for processing the schedule described in the input data depending on a range of a place information and a range of a time information to be presented to the user.

26. A schedule presentation apparatus which presents a user with information corresponding a schedule, 10 comprising:

input means for inputting data comprising a sequence of a predetermined specification which can be described by a set of a place condition and a time condition, a schedule to be performed based on the place condition 15 and time condition, and a method of presenting the user with presentation information for the schedule;

means for performing one of obtaining a situation of a current place and a current time, and generating a situation of a virtual current place and a virtual 20 current time; and

process means for processing at least one of the schedule described in the input data and the presentation information for the schedule depending on the current place and the current time obtained by one of obtaining 25 the situation and generating the situation.